

GFP expression construct	
Primer Name	Sequence (5' to 3')
rdxA 5' flank forward	ggcgagctggcattg
rdxA 5' flank reverse	atggtcgtggttatctgatttccttatttttagaatg
rdxA 3' flank forward	ggatgaatttttagtacctaacaatcaaaaacttttaac
rdxA 3' flank reverse	ccctaaacatgcgttag
aphA + ureA prom + GFP forward	agacatctaaatctaggtaactaa
aphA + ureA prom + GFP reverse	ttatttgatagttcatccatgc

tdTomato expression construct	
Primer Name	Sequence (5' to 3')
rdxA 5' flank forward	ggcgagctggcattg
rdxA 5' flank reverse	atggtcgtggttatctgatttccttatttttagaatg
rdxA 3' flank forward	ggatgaatttttagtacctaacaatcaaaaacttttaac
rdxA 3' flank reverse	ccctaaacatgcgttag
aphA + ureA prom forward	agacatctaaatctaggtaactaa
aphA + ureA prom reverse	cctcgcctttgacaccatctcatttcctattctaaagtg
tdTomato forward	atggtgtcaaaaggcgaag
tdTomato reverse	ttatttgatataattcatccatacc

S2 Table. Primers used to generate fluorophore-expression constructs.